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(54) Title: REUSABLE SOLID SUPPORT FOR OLIGONUCLEOTIDE SYNTHESIS

(57) Abstract

A reusable linker arm for solid support oligonucleotide synthesis, the linker arm comprising formula (a) wherein Z is a linker moiety and T is an organic radical. A method for adding one or more nucleosides on the linker arm is also described.

Z--O-T---[SUPPORT] (a)

HOCCH,CH,COH - NII,---SUPPORT

SUCCINYL-SUPPORT CONJUGATE

PRODUCTION

PRODUCTION

HOCCH,CH,C N SUPPORT

H

DMTO

B'

CCH,CH,C N SUPPORT

OH

OH

OH

OLIGONUCLEOTIDE SYNTHESIS

OLIGONUCLEOTIDE-O-CCH₂CH₂C-N-SUPPORT
0 0 H

CLEAVAGE

OLIGONUCLEOTIDE—OH + H₂N—CCH₂CH₂C—N~SUPPOR